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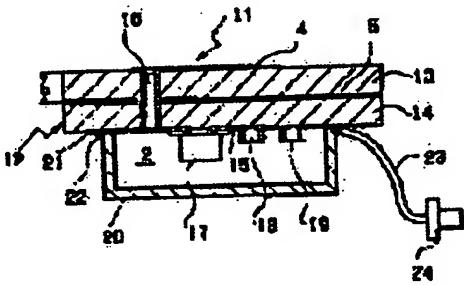
(71) Applicant : NIPPON AVIONICS CO LTD  
 (72) Inventor : OE AKIHIKO

## (54) PATCH ANTENNA SYSTEM

## (57) Abstract:

PURPOSE: To facilitate the assembling of the patch antenna system by forming an antenna pattern via a dielectric board on the upper side of a ground conductor and forming a circuit pattern with circuit components mounted thereon via a dielectric board at the lower side of the ground conductor.

CONSTITUTION: A multi-layer ceramic board 12 of a patch antenna system 11 of one-point feeding type is made up of 1st and 2nd dielectric boards 13, 14. An antenna pattern 4 is formed on the upper side of the board 13 by a conductor member such as a copper foil by photo etching. Furthermore, the patch antenna is formed by forming a ground conductor 5 on a lower side and the shape is rectangular or circular. A radio wave from an earth satellite is received by the antenna pattern 4 and inputted to an input terminal of a low noise amplifier 2 directly via a throughhole 16, in which the radio wave is amplified. Then the amplified signal is inputted to a reception section through a coaxial cable 23. An external undesired radio wave is blocked by a cover 20. Moreover, the length of the throughhole 16 does not almost attenuate the reception radio wave because the thickness of the board 14 is minimized.



## LEGAL STATUS

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